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**Subject:** Drinking Water Quality Management System (DWQMS) 2024 Q4 Report

**Report to:** Thorold City Council

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## Recommendations

1. That Report PWCS 12-2025 **BE RECEIVED** for information purposes.

## Key Facts

- The purpose of this report is to keep Council, (owners) informed and updated with respect to the status of the drinking water system(s).
- There was one adverse drinking water sample within the fourth quarter.
- The drinking water system(s) are operating proficiently.

## Budgetary Status

N/A

## Analysis

In accordance with the City's Drinking Water Systems Operations and Maintenance Manual, Staff is required to provide Council, owners of the system, quarterly reports of all "adverse water quality incidents" and the review of completed "Daily Log Sheets".

Quarterly and Annual reports help council obtain data on the City's water infrastructure and allows for more educated decisions when dealing with water issues. Any action required is described in recommendations above, most reports are informational only.

As always, additional data can be requested from staff and provided to council at any time.

Drinking water samples are taken on a weekly basis in accordance with Ontario Regulation 170/03. Daily Log Sheets are to be completed by designated operators at the end of each shift in accordance with Ontario Regulation 128/04. The following summary report includes the fourth quarter of 2024 for the period beginning October 1 to December 31, 2024.

## Quarter 4

### “Adverse Water Quality Incident Summary”

Total Number Drinking Water Samples Collected = 238

Total Number of Adverse Drinking Water Samples = 1

The adverse sample was a result of 1 Total Coliform. Proper procedures were taken to address and resolve the adverse received from the weekly samples. No major issues resulted from the adverse sample and the follow up samples were clear and within specifications deeming the system safe and operable.

The owner of a drinking water system that provides secondary disinfection and the operating authority for the system shall ensure that at least two distribution samples are taken each week in accordance with subsection (3.1) and are tested immediately for:

- free chlorine residual, if the system provides chlorination and does not provide chloramination. [O.Reg 170/03, s.8-3.(3)(a)]

Total Number of Free Chlorine Residual Tests = 415

Total Number of Adverse Free Chlorine Residual Tests = 0

Highest Chlorine Residual Reading = 1.45

Lowest Chlorine Residual Reading = 0.22

The owner or operating authority shall ensure that logs and other record-keeping mechanisms are accessible at the subsystem for at least five years after each entry in it was made, in the case of a log or record-keeping mechanism that is kept on a loose-leaf or electronic basis or kept on a similarly continuous basis. [O.Reg. 128/04, s.27(6)(b)].

The owner or operating authority shall submit to the Director copies or summaries of the records kept under this section when requested to do so by the Director. [O.Reg. 128/04, s.27(7)].

Total number of completed shifts = 64

Total number of daily logs **NOT** completed or not completed correctly = 0

This report has been prepared for information purposes in accordance with Section E2 of the City’s Drinking Water System Operation and Maintenance Manual, Quarterly Reporting Requirements.

## **Impact on the Environment, Climate Change**

There are no known environmental or climate change related impacts to this Report.

## **Alternatives Reviewed**

N/A

## **Relationship to Strategic Plan**

The recommendation is consistent with Council Strategic Plan (2024 – 2027 and beyond)

- Vibrant and Prosperous Community
  - Livable Community
  - Community Wellbeing
- Sustainability
  - Sustainable Infrastructure
  - Environmental Sustainability

## **Other Pertinent Reports**

N/A

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**Prepared by:**  
Kory Yungblut  
Water/Wastewater Compliance  
Supervisor  
Public Works and Community Services



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**Recommended by:**  
Geoff Holman  
Director  
Public Works and Community Services

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**Approved and Submitted by:**  
Manoj Dilwaria  
Chief Administrative Officer